



# Mohammad El Musleh

**Work permit:** German | **Place of birth:** Lebanon | **Phone number:** (+49) 15154335366 (Mobile) |

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**Address:** Kirchheimer str. 40, 73249, Wernau, Germany (Home)

## ABOUT ME

C#/.NET Software Developer with 3+ years' experience in developing and optimizing software solutions. Skilled in C#, C++, and Python, with expertise in clean code, testing, and agile methods. Committed to delivering high-quality, scalable applications and continuous professional growth.

## WORK EXPERIENCE

### SELF-DIRECTED – WERNAU, GERMANY

#### PROFESSIONAL DEVELOPMENT/JOBSEEKER – 01/11/2024 – CURRENT

- Achieved German language B1 proficiency; currently pursuing B2 to enhance professional capabilities.
- Completed multiple online courses in Artificial Intelligence through Coursera to stay current with industry trends and earn university certificates.
- Actively contributed to an open-source projects, enhancing collaboration and real-world coding skills.

### ALTEN GMBH – COBURG, GERMANY

#### CONSULTANT ENGINEER – 01/02/2022 – 31/10/2024

- Successfully completed the first ALTEN mission at Bosch Thermotechnik GmbH, extended over a consultancy period of 2 years and 3 months.
- Developed and launched four major releases of an in-house tool initiated at Bosch Thermoteknik AB, utilizing C# within the .NET Framework, leading to widespread adoption by hundreds of service technicians and improving service response times across eight European countries.
- Debugged and unit tested multithreaded applications in Visual Studio, resolving bugs within sprint cycles.
- Resolved 70% of field issues and enhanced post-release handling through direct engagement with end-users and stakeholders, earning recognition from Bosch's Head of Software Development.
- Collaborated with cross-functional teams to improve communication and project alignment.

### BOSCH THERMOTEKNIK AB – TRANÅS, SWEDEN

#### SOFTWARE DEVELOPERS – 15/03/2021 – 30/01/2022

- Designed an advanced firmware update tool for heat pumps, utilizing C++ for CAN communication and a C# .NET GUI, significantly improving user satisfaction.
- Applied SOLID principles and clean coding practices, resulting in more efficient, maintainable code that reduced technical debt and facilitated smoother integration during project development cycles.
- Integrated Azure storage for asynchronous updates, leveraging Python scripts to automate processes, which reduced manual effort and saved users time, thereby enhancing overall efficiency.
- Built a comprehensive project foundation and documented key activities, facilitating seamless handover and efficient knowledge transfer.

### NEVS AB – TROLLHÄTTAN, SWEDEN

#### EDUCATIONAL RESEARCHER – 01/02/2020 – 30/12/2020

- Completed an 8-month thesis research in collaboration with NEVS (National Electric Vehicle Sweden), focusing on automated test case generation from requirements for the automotive industry.
- Reviewed literature to identify best practices for automated test case generation, forming the thesis foundation.
- Created a demo using a full stack (Neo4j, GraphQL, React.js), integrating a Neo4j graph database with a GraphQL API for efficient data visualization and interaction, supporting thesis research.

## EDUCATION AND TRAINING

15/09/2018 – 30/11/2020 Uppsala, Sweden

**MASTER OF SCIENCE IN EMBEDDED SYSTEMS** Uppsala University (UU)

15/09/2014 – 15/06/2018 Nicosia, Cyprus

**BACHELOR OF SCIENCE IN COMPUTER ENGINEERING** Near East University (NEU)

## PUBLICATIONS

[\*\*El Musleh, M. \(2020\). Transformation of UML State Machine Diagram into Graph Database to Generate Test Cases.\*\*](#)

[\*\*Musleh, M. E. \(2020\). Steps detection and position estimate from data collected using smartphone sensors.\*\*](#)

## LANGUAGE SKILLS

Mother tongue(s): **ARABIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2
<b>GERMAN</b>	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## SKILLS

### Languages

C | C++ | C# | Python | VHDL/Verilog | GraphQL | HTML | MATLAB & Simulink | CSS | JavaScript | JSON | XML

### System Architecture

SOLID principles | Scalable software design | Clean Code practices

### Testing & Debugging

CANalyzer | Test Planning | Peer Reviews | ECU-Test | Debugging | Unit Testing | HiL Testing

### Protocols & Standards

UART | UDS | CAN | I2C | SPI | TCP/IP | Bluetooth

### Tools & Platforms

Visual Studio | C-Programming ARM Microcontroller (Keil uVision - IAR - STM32CubeIDE) | Linux | Git | GitHub | FreeRTOS | MATLAB | Atlassian (Bitbucket, Confluence, Jira) | Microsoft Azure (storage account) | Docker | MySQL | Neo4j graph database | FPGA (VHDL - Xilinx Vivado)

### Development Methodologies

Agile (Scrum/KanBan) | V-MODEL | UML | CI/CD Pipelines

## DRIVING LICENCE

Driving Licence: B

## HONOURS AND AWARDS

11/11/2020

Won the Carlsberg Hackathon 2020 – Carlsberg Group

15/06/2018

Received four certificates of honor during bachelor's studies for maintaining a high GPA – Near East University

1. GPA 3.22/4 (Honour 2016-2017 - Fall)
2. GPA 3.30/4 (Honour 2016-2017 - Spring)
3. GPA 3.64/4 (High Honour 2017-2018 - Fall)
4. GPA 3.52/4 (High Honour 2017-2018 - Spring)

01/09/2014

Granted a half-tuition scholarship to study bachelor's at NEU – Near East University